

H.264/MPEG4-AVC Encoders (E601 and E801HD)



E601H.264 Encoder is the SD product of Communicate in 2007 adopting H.264/MPEG4 - AVC compression standard. It supports MPEG-1 Layer2 audio encoding, and is also very applicable at IPTV, mobile TV, video storage broadcasting and news transfer etc.

E801HD Encoder is the newest HD product of Communicate in 2008 which adopts H.264/MPEG4 - AVC high quality compression technology. It supports HD SDI video and audio input, analog YPbPr, SD CVBS video input, stereo analog balanced audio input, it further improves the encoding efficiency to satisfy the diverse needs of operators.

As the new generation of H.264/MPEG4-AVC standard encoder product, E601 and E801HD have improved algorithm and higher compression efficiency, which make it possible for using more effectively the transmission bandwidth and storage space.

Main features

- High performance encoder with compact structure and H.264/MPEG4 - AVC standard
- MPEG-1 Layer II audio encoding (sampling frequency 48KHz)
- SD video input format: NTSC/PAL
- HD video input format: SMPTE-296/SMPTE-274
- Entropy encoding supports CABAC algorithm , and supports within-ring de-blocking filter
- IP encoding output meets with UDP protocol
- Supporting auto-retain when the power is off, supporting operation log
- Supporting multiplexing of MPEG4 video and audio compressing data stream, supporting DVB packing
- Supporting and editing SI relation information table (SDT)

General features

- 1U, 5kg
- 484mm(W) 44mm(H) 306mm(D)
- AC100V-240V, 50Hz/60Hz, 20W

Technique Parameters

Input	Video	CVBS, SDI (BNC), HD YPbPr
	Audio	1 XLR and RCA, supporting SDI embedded audio
Output	TS	Double mirror ASI outputs(188), supporting E.1 interface compatible withG.703 (Option)
	Bit rate	E601:10Mbps in maximum E801HD:20Mbps in maximum
Control and IP output (RJ45)	IP output	Direct IP encapsulation output, TS over IP
	Local monitor	Buttons and LCD display screen
	Remote control	Supporting TCP/IP protocol and standard WEB control interface module
Video Encoding	Encoding technique	E601:supporting MPEG-4 part 10 <u>MP@L1~3</u> , supporting FULL D1real-time encoding
		E801HD:supporting H.264/MPEG4 - AVC High Profile Level 4.0
	Definition	E601: D1
		E801HD: 1920 x 1080 x 59.94i/50; 1440 x 1080 x 59.94i/50i; 1280 x 720 x 59.94p/50p; 720 x 480 x 59.94i; 720 x 576 x 50i
	GOP structure	GOP can be configured
Date rate control	VBR, CBR	
Audio Encoding	Encoding technique	Supporting MPEG-1 Layer2, Supporting stereo audio encoding
	Sampling frequency	48KHz
	Channel	Supporting mono, stereo